

Title (en)

DIAMINOTHIAZOLES AND USE THEREOF AS CDK4 INHIBITORS

Title (de)

DIAMINOTHIAZOLE UND IHRE ANWENDUNG ALS CDK4 INHIBITOREN

Title (fr)

DIAMINOTHIAZOLES ET LEUR UTILISATION EN TANT QU'INHIBITEURS DE CDK4

Publication

EP 1507530 B1 20051102 (EN)

Application

EP 03752731 A 20030512

Priority

- EP 0304939 W 20030512
- US 38151302 P 20020517

Abstract (en)

[origin: WO03097048A1] The present invention is directed to novel diaminothiazoles of formula (I): These compounds inhibit cyclin-dependent kinase 4 (Cdk4) and are selective against Cdk2 and Cdk1. These compounds and their pharmaceutically acceptable salts and esters have antiproliferative activity and are useful in the treatment or control of cancer, in particular solid tumors. This invention is also directed to pharmaceutical compositions containing such compounds and to their use for the preparation of medicaments for the treatment and control of cancer, most particularly the treatment or control of breast, lung and colon and prostate tumors.

IPC 1-7

A61K 31/426; **A61K 31/427**; **C07D 277/42**; **C07D 417/06**; **C07D 417/12**; **A61P 35/00**

IPC 8 full level

C07D 277/20 (2006.01); **A61K 31/426** (2006.01); **A61K 31/427** (2006.01); **A61K 31/454** (2006.01); **A61K 31/5377** (2006.01); **A61P 35/00** (2006.01); **C07D 277/42** (2006.01); **C07D 417/06** (2006.01); **C07D 417/12** (2006.01); **C07D 417/14** (2006.01)

CPC (source: EP KR US)

A61P 35/00 (2017.12 - EP); **C07D 277/42** (2013.01 - EP KR US); **C07D 417/06** (2013.01 - EP KR US); **C07D 417/12** (2013.01 - EP KR US); **C07D 417/14** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 03097048 A1 20031127; AR 040078 A1 20050316; AT E308323 T1 20051115; AU 2003232754 A1 20031202; AU 2003232754 B2 20090312; BR 0310081 A 20050215; CA 2485367 A1 20031127; CN 100400041 C 20080709; CN 1652780 A 20050810; DE 60302152 D1 20051208; DE 60302152 T2 20060713; EP 1507530 A1 20050223; EP 1507530 B1 20051102; ES 2251697 T3 20060501; JP 2005530783 A 20051013; JP 4308133 B2 20090805; KR 100619515 B1 20060908; KR 20050006261 A 20050115; MX PA04011372 A 20050815; PL 374581 A1 20051031; RU 2004137110 A 20050820; RU 2311414 C2 20071127; US 2004006058 A1 20040108; US 6818663 B2 20041116

DOCDB simple family (application)

EP 0304939 W 20030512; AR P030101692 A 20030515; AT 03752731 T 20030512; AU 2003232754 A 20030512; BR 0310081 A 20030512; CA 2485367 A 20030512; CN 03811131 A 20030512; DE 60302152 T 20030512; EP 03752731 A 20030512; ES 03752731 T 20030512; JP 2004505047 A 20030512; KR 20047018605 A 20030512; MX PA04011372 A 20030512; PL 37458103 A 20030512; RU 2004137110 A 20030512; US 42955103 A 20030505